

[illegible]

A filter device for being implanted in a blood vessel for carrying out *in-vivo* plasma separation comprises one or more elongated hollow tubes and a plurality of elongated hollow microporous fibers, each fiber having a first and second end secured to one or more of the elongated hollow tubes with the interior lumen of each of the fibers communicating with the interior of the one or more of the hollow tubes, and wherein the fiber wall has a higher mass density zone adjacent to the outer wall surface and a lower mass density zone adjacent to the inner wall surface.

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